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(21)Application number : **58-220138** (71)Applicant : **NGK INSULATORS LTD**
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(54) AGE HARDENABLE TITANIUM-COPPER ALLOY MATERIAL

(57)Abstract:

PURPOSE: To provie the titled material having excellent material characteristics such as formability, spring life, elongation, yield strength, etc. and having less variance in the material characteristics by subjecting the material to a through soln. heat treatment and forming the material having uniform and fine crystal structure.

CONSTITUTION: A working material of an age hardenable titanium-copper alloy contg. 2W6wt%, more preferably, about 3W5% Ti is subjected to a substantially satisfactory soln. heat treatment to form the age hardenable titanium copper alloy material having the structure of 25 μ m average cyrstal grain size and excellent material characteristics. The material formed by cold rolling the above- mentioned working material is the highly reliable material having extremely less variance in the material characteristics in the rolling direction and the direction perpendicular thereto; for example, the elongation in the direction perpendicular to the rolling direction is within less than 20% change ratio with respect to the elongation in the rolling direction and the bending formability in the direction perpendicular to the rolling direction is substantially the same as the bending as the bending formability in the rolling direction.

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